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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/022,040	12/17/2001	Martin Lee Wilson	SSG-047/A/070659-005	2059

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EXAMINER

ELAMIN, ABDELMONIEM I

ART UNIT PAPER NUMBER

2116

DATE MAILED: 07/26/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/022,040	WILSON, MARTIN LEE	
	<b>Examiner</b>	<b>Art Unit</b>	
	Abdelmoniem Elamin	2116	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 11 May 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over King et al, US. Pat. No. 6,959,399 in view of Born, Us. Pat. No. 6,115,771 (cited by Applicant).

3. Claims 1, 7, 13, King teaches a method for enabling enclosure services in a computer system host [*host 8n of Fig. 1*] including a multi-device enclosure [*enclosure 6 of Figs. 1 and 2*] having an enclosure processor [*col. 4, line 19*] for monitoring a condition of devices installed in the enclosure, the enclosure processor in communication with a host bus adapter of the computer system host [*host adapter 4 of Fig. 1*] the method comprising;

providing a communications port between the multi-device enclosure of the computer system host and the host bus adapter of the computer system host [*see Figs. 1 and 2*];

providing: a plurality of slots for removably receiving respective devices in the enclosure [*device slots 1-D-1 of Fig. 2*]; and

providing respective transceiver for asynchronously interconnecting the enclosure processor and the host bus adapter of the computer system host though the communications port [*see SEP 10 of Fig. 2 and related disclosure*];

configuring the processor to asynchronously notify the host bus adaptor of the status of any given device of the enclosure upon the occurrence of predefined device events, with at least

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one of the events being selected from the group consisting of device insertion, device withdrawal, and malfunction indications regarding any of the devices of the multi-device enclosure [*enclosure processor performs error recovery, see Fig. 5 and related discussion*].

King fails to teach at least one of the devices comprising an Advanced Technology Attachment (ATA)-accessible device.

Born teaches a conversion apparatus attachable to an Advanced Technology Attachment (ATA)-accessible device, to allow it to communicate in SCSI protocol with a host computer [*title, and abstract*].

It would have been obvious to one of ordinary skill in the art at the time of invention was made to modify King to include at least one of the devices comprising an Advanced Technology Attachment (ATA)-accessible device, because ATA bus is relatively simple and well understood. ATA has been the standard storage device communication protocol for so many years, computer software and hardware manufacturers are well accustomed to operating in this protocol and the hardware and software related to such mass storage devices are well developed [*see Born, col. 1, lines 24-35*].

4. Claims 2, 8, 14, King teaches configuring the host bus adapter to control, through the communications port, the enclosure processor to set respective device states of the multi-device enclosure [*see the configuration of Figs. 1 and 2 and related disclosure*].

5. Claims 3, 9, 15, King teaches configuring the host bus adapter to generate a set of queries transmitted through the communications port and requiring response from the enclosure processor regarding the status of respective devices of the multi-device enclosure [*col. 17, lines 44-47*].

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6. Claims 4, 10, 16, King teaches the multi-device enclosure comprises at least one device selected from the group consisting of a storage unit, a temperature sensor, a power supply, and cooling equipment [*disk drives 38 of Fig. 2*].

7. Claims 5, 11, 17, King teaches the n me communications port comprises a serial communications port [*see the configuration of Figs. 1 and 2*].

8. Claims 6, 12, 18, King teaches each transceiver comprises a Universal Asynchronous Receiver Transmitter (UART) [*inherently, transceivers comprises a UART*].

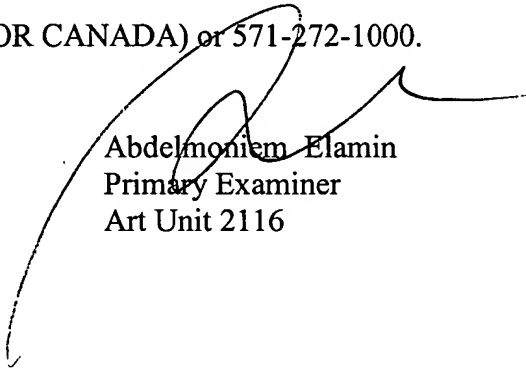
### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Abdelmoniem Elamin whose telephone number is 571-2727-3674. The examiner can normally be reached on MON - THUR 10:00 AM - 6::00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne Browne can be reached on 571-272-3670. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Abdelmonem Elamin  
Primary Examiner  
Art Unit 2116

July 23, 2006